Soil and Rock Logging, Classification, and Presentation Manual (June 2007)

Errata Sheet (August 24, 2007)

Section	Effective Date	Description
1.6	8/01/2007	The following sentence: *An LOTB is typically associated with a structure facility and is attached to Project Plans. A BR is typically associated with an earthwork facility and is attached to a Geotechnical Report.* is amended to read: *An LOTB is typically associated with a structure facility and is attached to Project Plans. A BR is typically associated with an earthwork facility and is attached to a geotechnical report.*
2.4.4	8/01/2007	The following text: ER_i *= Hammer energy ratio* Is amended to read: ER_i *= Hammer energy ratio (%)*
2.4.8	8/01/2007	The following sentence: *The percentages of gravel, sand, and fines must add up to 100 %. The term "about" shall be used if the percentage or proportion of constituents is estimated in the field.* is amended to read: *The percentages of gravel, sand, and fines must add up to 100 %. The term "about" shall be used if the percentage of constituents is estimated in the field.*
2.5	8/01/2007	The example in Section 2.5 is amended to read: *IGNEOUS ROCK (GRANITE), light gray to light yellowish brown, intensely weathered, soft, unfractured, (Lean CLAY with SAND (CL), medium stiff, moist, mostly clay, little coarse SAND, medium plasticity).*

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2.5.8	8/01/2007	(Figure 2-30) The criteria for "Moderately Soft" is amended to read: *Specimen can be grooved 1/16 in. deep with a pocket knife or sharp pick with moderate or heavy pressure. Breaks with light hammer blow or heavy manual pressure.*
3.2	8/01/2007	The first sentence is amended to read: *Six of the 19 attributes in the identification and descriptive sequence for soils, listed previously in section 2.4.1, may be revised with laboratory test results.*
4.3.2	8/01/2007	The following text is added to the end of Section 4.3.2: • *If a PA and/or PI is reported for any sample within a layer, then that layer's Group Name and Symbol shall be a classification based on ASTM D 2487 (Section 3). The proportional terms in Section 2.4.8 shall not be used in the layer description.* • *If a layer's Group Name and Symbol is based exclusively on field observations, then the percentages (to the nearest 5%) of gravel, sand and fines shall be preceded by the term "about". Proportional terms per Section 2.4.8 may be used in lieu of percentages.*
4.3.3	8/01/2007	Page 51 is replaced with the attached Page 51.
4.3.3	8/01/2007	The note at the bottom of Figure 4-3 is amended to read: *Terminated at EL –29'* The descriptive sequence at elevation –13.5 is amended to read: *becomes stiff, dark grey, with trace shell fragments*

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5.2	8/01/2007	The termination elevations presented in Figure 5-1 are amended to read: "*Terminated at EL –29'*" for R-07-001 "*Terminated at EL –39'*" for R-07-002 "*Terminated at EL –35'*" for *R-07-003* The descriptive sequence at elevation –13.5 for Boring R-07-001 is amended to read: *becomes stiff, dark grey, with trace shell fragments*
5.2.1	8/01/2007	The 8th bullet is amended to read" • *Typically allows presentation of more than one boring log per plan sheet.*
5.2.5	8/01/2007	The soil and rock LOTB legend sheets are replaced with new sheets to accommodate larger font sizes required by the Department. There are now two soil legend sheets and one rock legend sheet.
5.3.1	8/01/2007	The following text is added to the end of Section 5.3.1: *The examples presented in Figures 5-12 and 5-13 are intended as examples only and do not represent a presentation standard. Presentation of Boring Records and CPT data is left to the geoprofessional.*

4.3.3 Example

The process for developing boring logs has been presented in detail throughout this Manual. In general, field sample descriptions are corrected and calibrated based on laboratory results, layer boundaries are determined by grouping samples within the same group symbol, sample descriptions are consolidated into a single layer description, and, finally, description changes are noted with depth within layers.

The following example demonstrates how a geoprofessional develops a layer presentation, based on field descriptions and laboratory test results.

Figure 4-2

Depth (ft.)	Sample	Field Testing	Field Description and Identification	Lab Testing	Lab Corrected Description and Identification or Classification	Final Layer Presentation
3.5-5	R-07-001-S01	SPT	Well-graded SAND with GRAVEL and COBBLES (SW), loose, yellowish brown, moist, about 10% subrounded COBBLES, about 15% coarse to fine GRAVEL, about 80% coarse to fine SAND, about 5% fines, (fill)		Well-graded SAND with GRAVEL and COBBLES (SW), loose, yellowish brown, moist, about 10% subrounded COBBLES, about 15% coarse to fine GRAVEL, about 80% coarse to fine SAND, about 5% fines, (fill)	Well-graded SAND with GRAVEL and COBBLES (SW), loose, yellowish brown, moist, about 10% subrounded COBBLES, about 15% coarse to fine GRAVEL, about 80% coarse to fine SAND, about 5% fines, (fill) becomes medium dense
8.5-10	R-07-001-S02	SPT	Well-graded SAND with GRAVEL and COBBLES (SW), medium dense, yellowish brown, moist, about 10% subrounded COBBLES, about 15% coarse to fine GRAVEL, about 80% coarse to fine SAND, about 5% fines, (fill)	PA	Well-graded SAND with GRAVEL and COBBLES (SW), medium dense, yellowish brown, moist, about 10% subrounded COBBLES, 17% coarse to fine GRAVEL, 79% coarse to fine SAND, 4% fines, (fill)	
13.5-15	R-07-001-U03	PP	SANDY lean CLAY (CL), medium stiff, dark bluish gray, moist, about 35% medium SAND, about 65% fines, trace shell fragments, (bay mud)		SANDY lean CLAY (CL), medium stiff, dark bluish gray, moist, about 35% medium SAND, about 65% fines, trace shell fragments, (bay mud)	SANDY lean CLAY (CL), medium stiff, dark bluish gray, moist, about 35% medium SAND, about 65% fines, trace shell fragments, (bay mud) as above except no shell fragments becomes stiff, dark gray, with trace shell fragments
18.5-20	R-07-001-U04	PP	SANDY lean CLAY (CL), soft, dark bluish gray, moist, about 35% medium SAND, about 65% fines, (bay mud)	UU, PA, PI	SANDY lean CLAY (CL), medium stiff, dark bluish gray, moist, 38% medium SAND, 62% fines, (bay mud)	
23.5-25	R-07-001-U05	PP	SANDY lean CLAY (CL), medium stiff, dark gray, moist, about 35% medium SAND, about 65% fines, trace shell fragments, (bay mud)	UU, PA, PI	SANDY lean CLAY (CL), stiff, dark gray, moist, 34% medium SAND, 66% fines, trace shell fragments, (bay mud)	
28-29	R-07-001-S06	SPT	SEDIMENTARY ROCK (SHALE), dark bluish gray, intensely weathered, moderately soft, intensely to moderately fractured		SEDIMENTARY ROCK (SHALE), dark bluish gray, intensely weathered, moderately soft, intensely to moderately fractured	SEDIMENTARY ROCK (SHALE), dark bluish gray, intensely weathered, moderately soft, intensely to moderately fractured becomes moderately to slightly weathered, strong, moderately hard, moderately fractured becomes slightly fractured
29-34	R-07-001-C07		SEDIMENTARY ROCK (SHALE), dark bluish gray, moderately to slightly weathered, moderately hard, moderately fractured	UC	SEDIMENTARY ROCK (SHALE), dark bluish gray, moderately to slightly weathered, strong, moderately hard, moderately fractured	
34-39	R-07-001-C08		SEDIMENTARY ROCK (SHALE), dark bluish gray, moderately to slightly weathered, moderately hard, slightly fractured	UC	SEDIMENTARY ROCK (SHALE), dark bluish gray, moderately to slightly weathered, strong, moderately hard, slightly fractured	